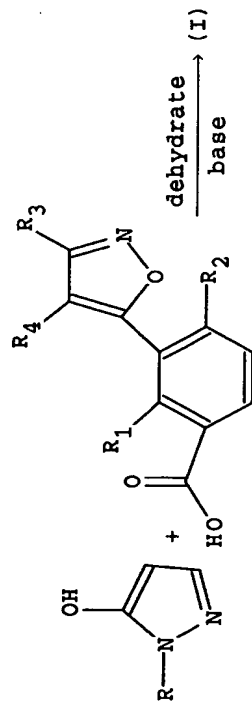


(8a)

WO97/4118

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| <p>98-041693/04 C02 NIPS 96.04.26 NIPPON SODA CO *WO 9741118-A1 96.12.27 96JP-360066(+96JP-131170) (97.11.06) C07D 413/10, A01N 43/56 New 4-(1,2-isoxazol-5-yl)-benzoylpyrazole derivatives - are selective herbicides useful for e.g. corn and wheat (Jpn) C98-013845 N(AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN) R(AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG) Addnl. Data: ADACHI H, TANAKA K, YAMAGUCHI M, MIYAHARA O, KOGUCHI M, TAKAHASHI A, KAWANA T 97.02.10 97WO-JP00343, 96.11.13 96JP-317154</p> | <p>C(7-EI, 14-V2B) .2</p> <div data-bbox="568 420 860 903"></div> <p>R₁ = 1-6C alkyl; R₂ = halo, 1-6C alkylthio, 1-6C alkylsulphinyl or 1-6C alkylsulphonyl; R₃, R₄ = H, 1-6C alkyl or 1-6C haloalkyl; R = H or 1-4C alkyl.</p> <p><u>USE</u> (I) are selective herbicides useful for corn and wheat.</p> |
| <p>4-(1,2-isoxazol-5-yl)-benzoylpyrazole derivatives and their salts are new.</p> | <p>WO 9741118-A+</p> |

PREPARATION



EXAMPLE

4-Methanesulphonyl-2-methyl-3-(3-methyl-1,2-isoxazol-5-yl)benzoyl chloride (0.17 g) in CH₂Cl₂ (2 ml) was added dropwise to 1-ethyl-5-hydroxypyrazole HCl (0.38 g) and NEt₃ (0.51 g) in CH₂Cl₂ (10 ml) and the mixture was stirred for 1 hour. Work-up gave 0.50 g of 1-ethyl-5-hydroxy-4-[4-methanesulphonyl-2-methyl-3-(3-methyl-1,2-isoxazol-5-yl)]-benzopyrazole, m.pt. 186-189 °C.

HERBICIDAL DATA

(I: R₁, R₃, R = Me; R₄ = H; R₂ = SO₂Et) at 63g/ha showed 100% control of *Echinochloa crus galli* and *Xanthium strumarium* with no phytotoxicity towards maize. (CBB)

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JP5515530 US4885022 US5468722 WO9318031 WO9626206

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